

FIG. 1

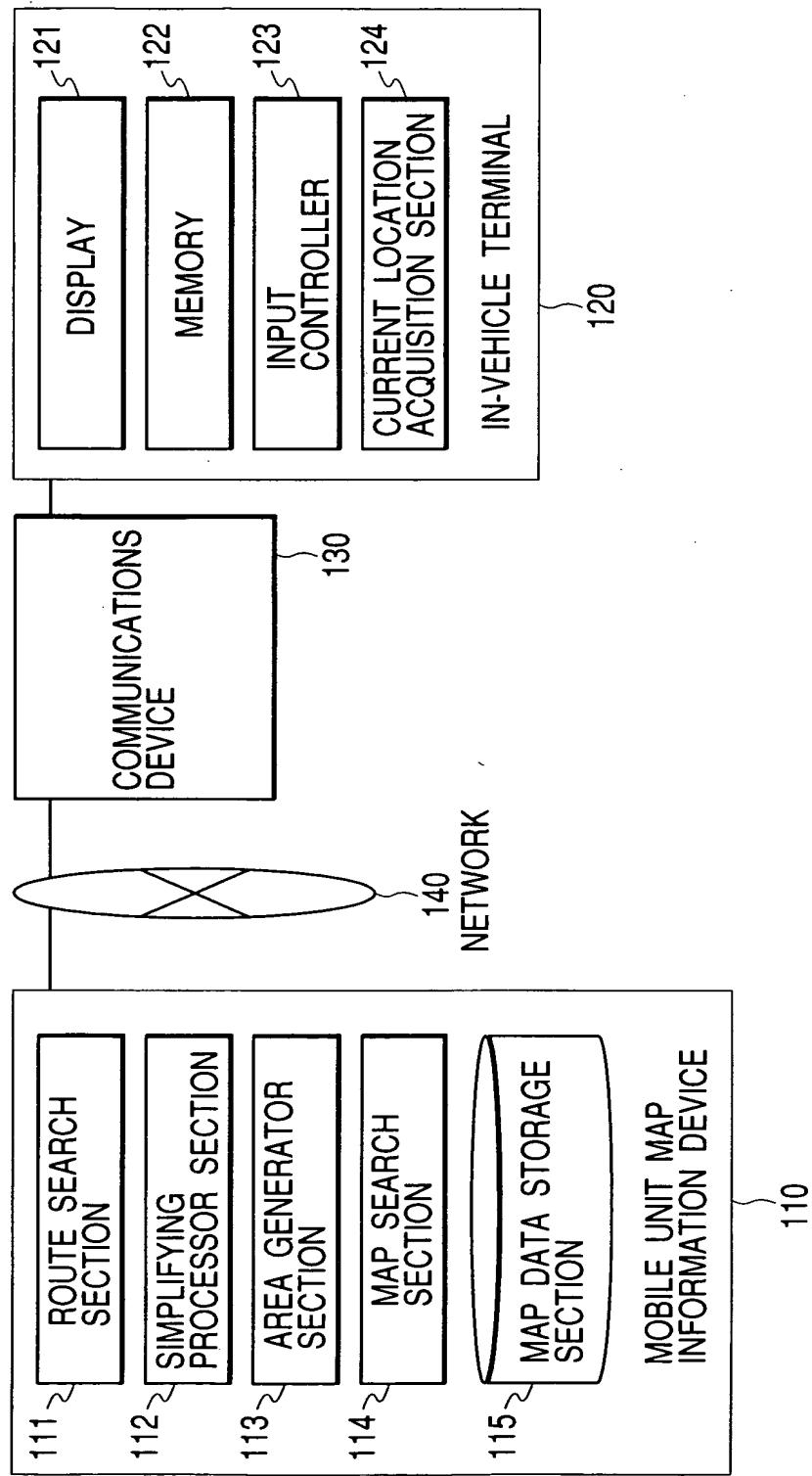


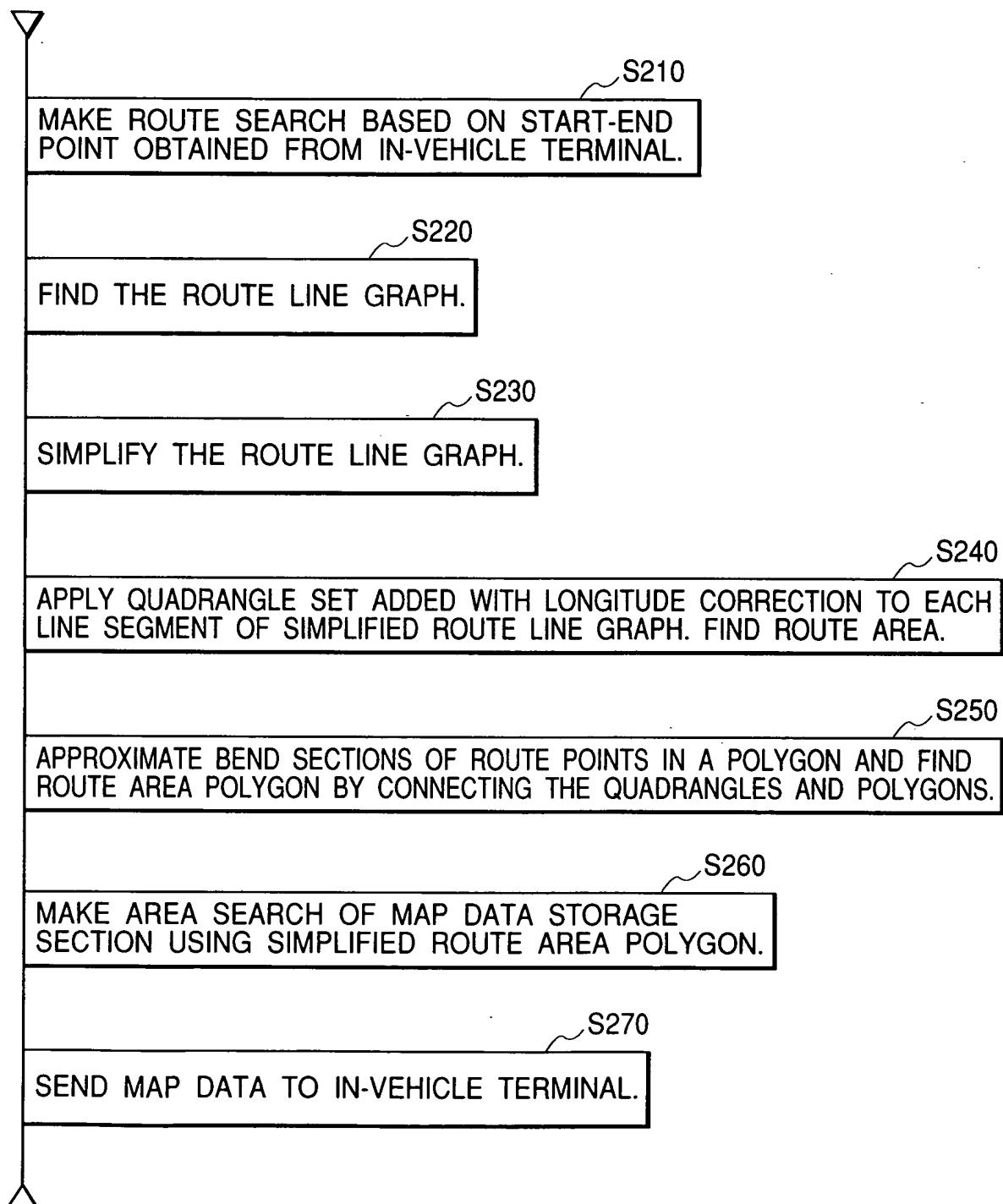
FIG. 2

FIG. 3

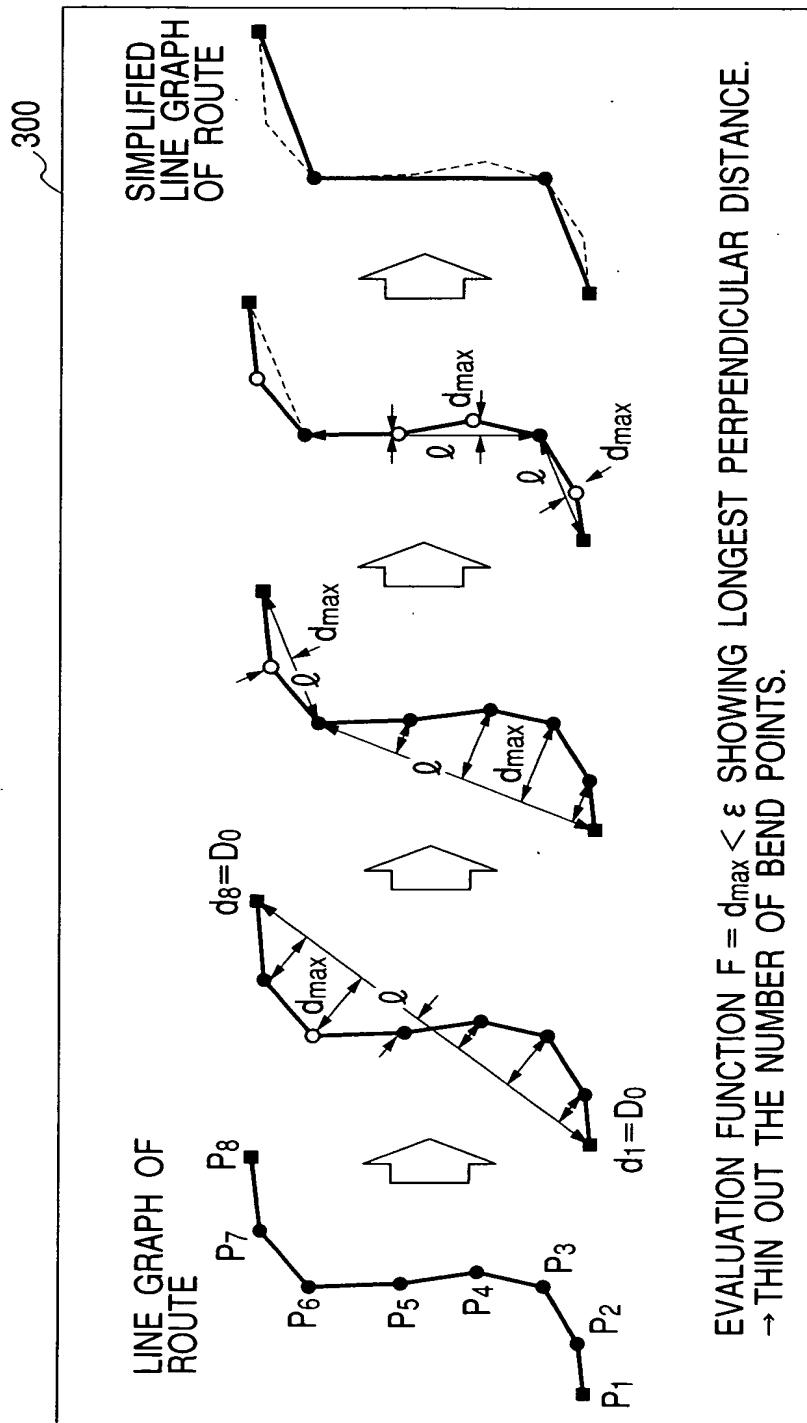


FIG. 4A

410

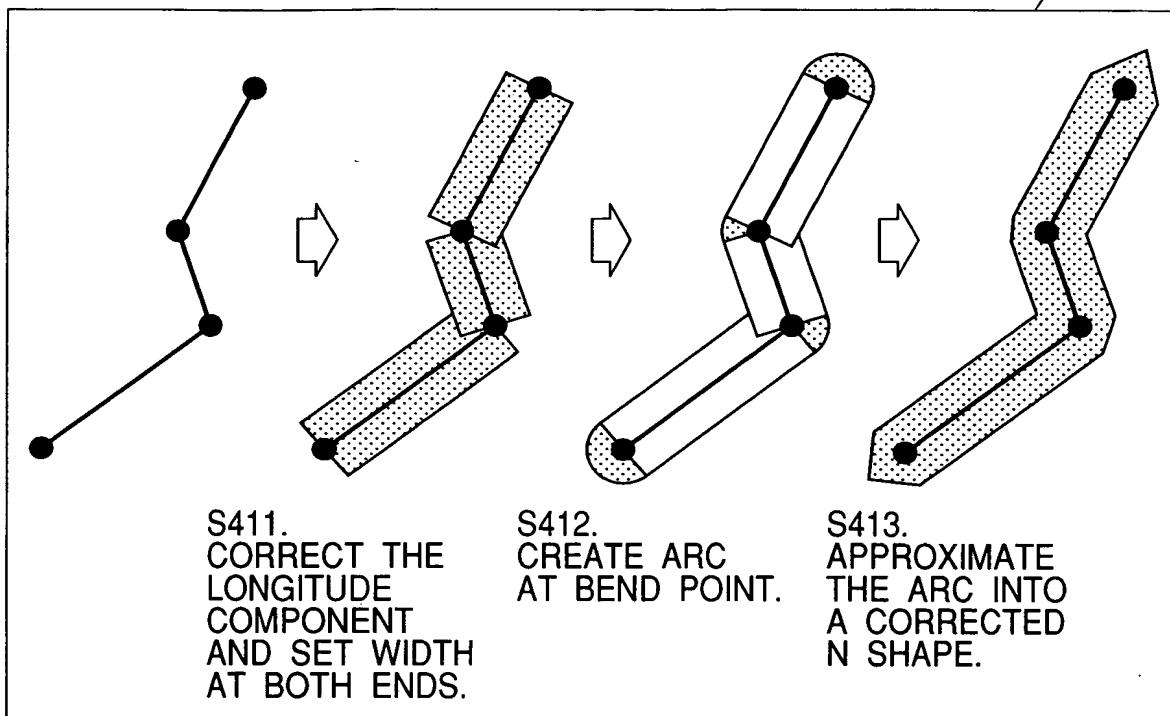
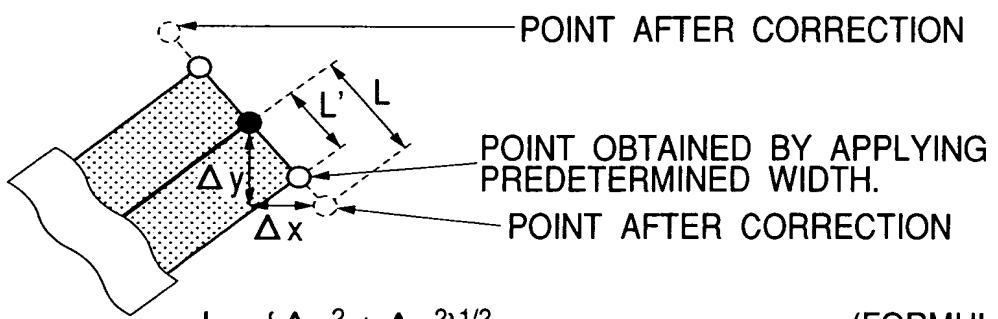


FIG. 4B

420

S411. PROCESSING TO CORRECT LONGITUDE COMPONENT.



$$L = \{\Delta x^2 + \Delta y^2\}^{1/2} \quad \text{----- (FORMULA 421)}$$

$$L' = \{(\cos \theta * \Delta x)^2 + \Delta y^2\}^{1/2} \quad \text{----- (FORMULA 422)}$$

HERE θ IS THE LATITUDE (OR A TYPICAL VALUE FOR LATITUDE)

$$\text{OR, } L' = \{(k * \Delta x)^2 + \Delta y^2\}^{1/2} \quad \text{----- (FORMULA 423)}$$

HERE, k IS THE COEFFICIENT DETERMINED BASED ON THE LATITUDE.

FIG. 5A

500

LATITUDE	TYPICAL VALUE FOR LATITUDE
35° ~ 40°	37.5°
40° ~ 45°	42.5°
45° ~ 50°	47.5°
⋮	⋮

FIG. 5B

510

LATITUDE	COEFFICIENT k
35° ~ 40°	0.79
40° ~ 45°	0.74
45° ~ 50°	0.68
⋮	⋮

ROAD TABLE

ID	TYPE	COORDINATES	NAME
1001	NATIONAL HIGHWAY	$\{(22, 141), \dots, (34, 244)\}$	NO. 20
1002	METROPOLITAN ROUTE	$\{(34, 562), \dots, (233, 984)\}$	FUCHU ROUTE
1003	CITY LOAD	$\{(859, 349), \dots, (83, 909)\}$	
:	:	:	:

FIG. 6A

610

POI TABLE

ID	TYPE	COORDINATES	NAME
2001	GS	$(234, 533)$	SO-AND-SO GASOLINE STAND
2002	SHOP	$(163, 499)$	ABC STORE
2004	SHOP	$(3, 300)$	BURGER SHOP
:	:	:	:

620

FIG. 6B

LANDSCAPE TABLE

ID	TYPE	COORDINATES	NAME
3001	LAKE/MARSHES	$\{(22, 141), \dots, (34, 244)\}$	YAMANAKA LAKE
3002	PARK	$\{(34, 562), \dots, (233, 984)\}$	NATIONAL PARK
3003	RAILWAY	$\{(859, 349), \dots, (83, 909)\}$	CHUO LINE
:	:	:	:

630

FIG. 6C

FIG. 7

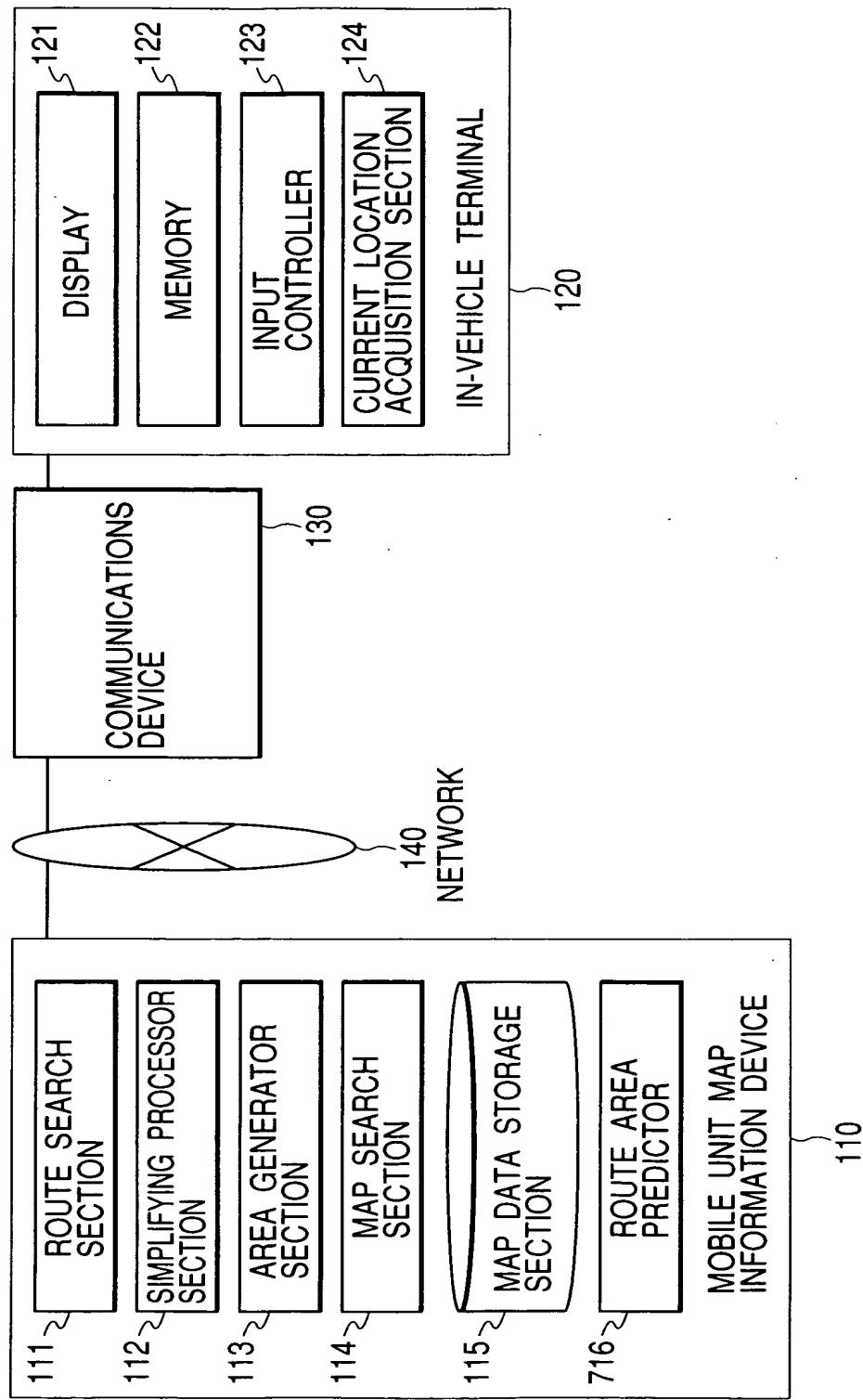


FIG. 8

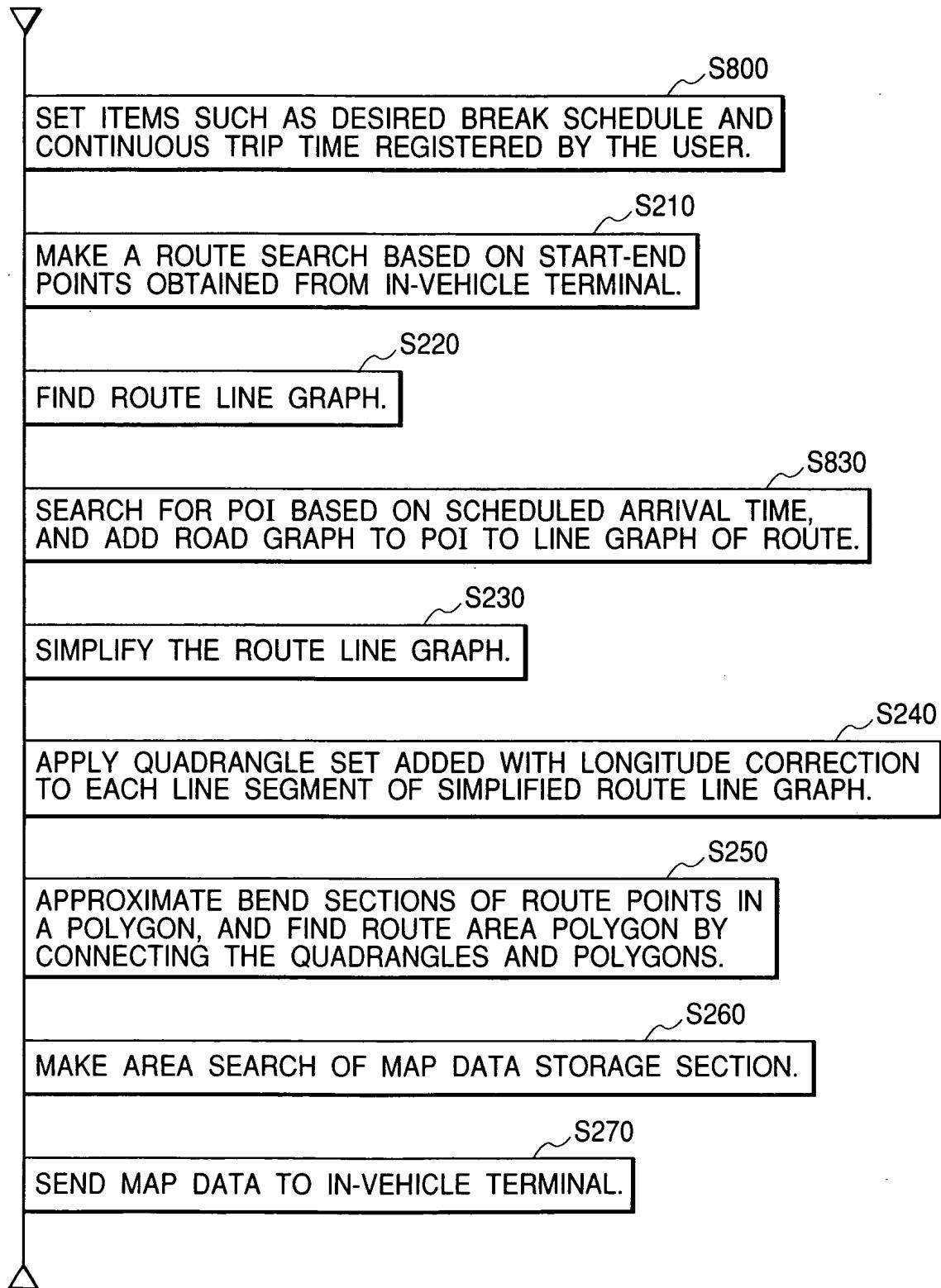


FIG. 9

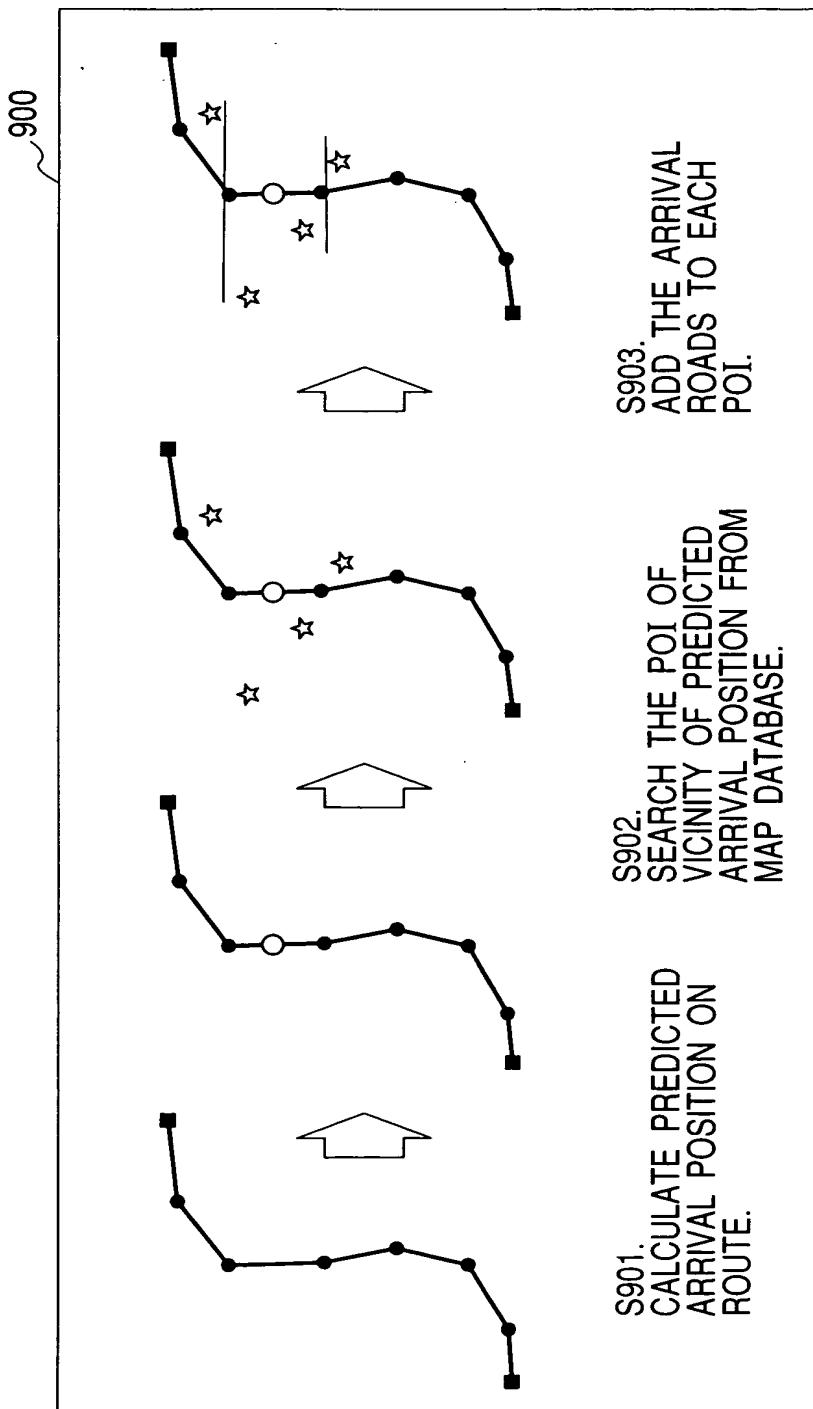


FIG. 10A

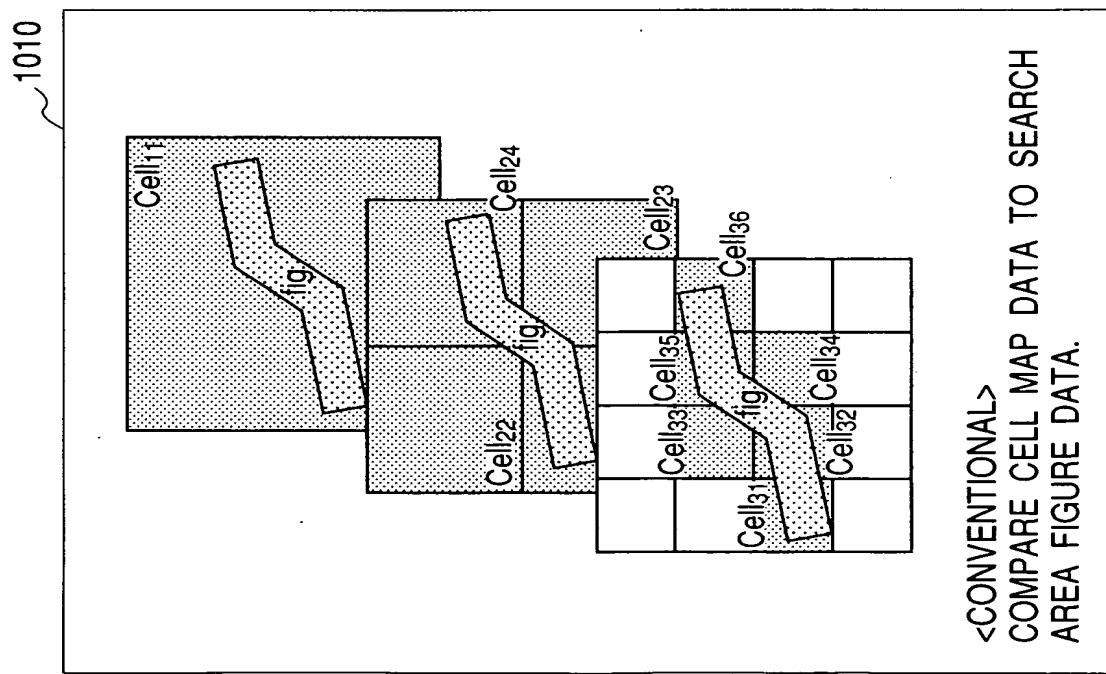


FIG. 10B

